

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-25. (Canceled)

26. (New) A method for producing a nanonetwork, comprising:

performing a modification treatment on multi-walled carbon nanotubes having at least two layers of graphene sheets, wherein:

the modification treatment is conducted by performing a mechanochemical treatment and subsequently performing a heating treatment in an acid solvent; and

the modification treatment modifies the carbon nanotubes to include core portions including hollow tubular portions surrounded by graphene sheets, and outer portions including modified graphene sheets having amorphous carbon areas formed around the core portions, the modified graphene sheets originating from at least one of the at least two layers of graphene sheets; and

the modification treatment results in formation of a dispersion including a nanonetwork in which a plurality of the carbon nanotubes adhere to one another through the amorphous carbon areas; and

applying the dispersion to a substrate to form a film including the nanonetwork.